

RACU 5 DEACTIVATION

NOTE

This procedure assumes that MDM N1-2 is Primary and MDM N1-1 is Secondary.

1. INHIBIT NCS AUTORETRY

PCS

Node1: C&DH: MDM N1-1

Secondary NCS MDM Node1

'Software Control'
sel MDM Utilities
'Auto Retry'

cmd Inhibit Execute

√Auto Retry - Inh

2. COMMAND N1-2 TO DIAGNOSTICS

NOTE

1. Expect 'Disconnect' message on PCS.
2. Possible PDI DECOM Fail message.

Node1: C&DH: MDM N1-2

Primary NCS MDM Node1

sel Major State Transitions
'N1-2'

cmd Authorize Transition to Diagnostic State Execute

cmd Transition to Diagnostic State Execute

3. TELEMETRY RECOVERY ON OIU

CRT

SM 212 OIU

BUS 4 BC - ITEM 15 EXEC (*)
BUS 3 RT - ITEM 10 EXEC (*)
Change OIU N1 Phys Dev to N1-1 - ITEM 18 +4 EXEC

CRT

Wait 1 min from diagnostic command.
Reload OIU Format 2 - ITEM 1 + 2 EXEC

PCS

4. TELEMETRY RECOVERY ON PCS

On PCS attached to PDIP N1-2 port

sel icon to open PCS CDS Main Control Panel Window

√Status box - yellow

sel 'Connect to MDM'

√Status box - green

Verify 'connected to MDM' indicated

Home page will display when load complete (~ 1 min).

NOTE

Expect PCS FDA 'CDH MDM N1-1 detected RT fail MDM N1-2 - PMA1.

Node1: C&DH: MDM N1-1

Primary NCS MDM Node1

'MDM Major State'

√State - Primary

```
* ***** *  
* If State not Primary or no N1-1 TLM *  
*   √ MCC *  
* ***** *
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5. REMOVE POWER FROM N1-2 MDM AT RPC

NOTE

Expect PCS FDA (LED & message only) when MDM power removed.

Node1: C&DH: MDM N1-2

Secondary NCS MDM Node1

'RPCM N1RS2 C'

sel RPC 13

cmd Open Execute

√Position - Op

6. DISABLE RT DEVICES I/O ON EPS BUSES

PCS

Node1: C&DH: MDM N1-1

Primary NCS MDM Node1

sel UB EPS_N1 23

sel RT Status

sel Ena_Inh RT

cmd Inhib_RPCM_N1RS1_A **Execute**
cmd Inhib_RPCM_N1RS1_B **Execute**
cmd Inhib_RPCM_N1RS1_C **Execute**
cmd Inhib_RPCM_Z13B_A **Execute**
cmd Inhib_RPCM_Z13B_B **Execute**

PRIM_EPS_N1_23_RT Status

√RT Inhibit 11, 12, 18, 19, 20 (five) –Inh

7. COMMAND FGB RACU-5 OFF

NOTE

RACU commands sent from Orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the “If ENA” block below.

CRT

SM 204 FGB

√COMMANDING - INH (Moscow Commanding)

If COMMANDING - INH

Crew ↓ **MCC-H**
MCC-H ⇒ **MCC-M**

“Ready for RACU 5 Power OFF”
 “Go for RACU 5 Power OFF”

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

MCC-M ⇒ **MCC-H** ↑ **Crew**: “RACU 5 Powered Off at ___/___:___:___ GMT”

If COMMANDING - ENA

MCC-M ⇒ **MCC-H**: "Go for RACU 5 Power OFF"

MCC-H ↑ **Crew**: "Moscow GO for RACU 5 Power OFF"

On MCC GO

MCDS

SM 204 FGB

RACU 5 Power OFF VIA NCS – ITEM 6 EXEC

√RACU 5 Input Amps < 2.0 A

√Output Volts ~ 0.0 V

√RACU 5 Power Off - *

PCS

nav FGB: EPS

FGB: EPS: RACU Details

RACU Details

sel Commands

cmd RACU 5 - Off Execute

√RACU 5 Converter - Off

√RACU 5 Input Current < 2.0 A

√Output Voltage ~ 0.0 V